External USB 7.1 Channel Sound Box

User’s Manual

ABOUT THIS MANUAL

This manual is designed for use with the External USB 7.1 Channel Sound Box. Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. The manufacturer does not make any representations or warranties (implied or otherwise) regarding the accuracy and completeness of this document and shall in no event be liable for any loss of profit or any commercial damage, including but not limited to special, incidental, consequential, or other damage.

SAFETY INSTRUCTIONS

Always read the safety instructions carefully:

- Keep this User's Manual for future reference.
- Keep this equipment away from humidity.
- If any of the following situation arises, get the equipment checked by a service technician:
  - The equipment has been exposed to moisture.
  - The equipment has been dropped and damaged.
  - The equipment has obvious sign of breakage.
  - The equipment has not been working well or you cannot get it to work according to the User's Manual.

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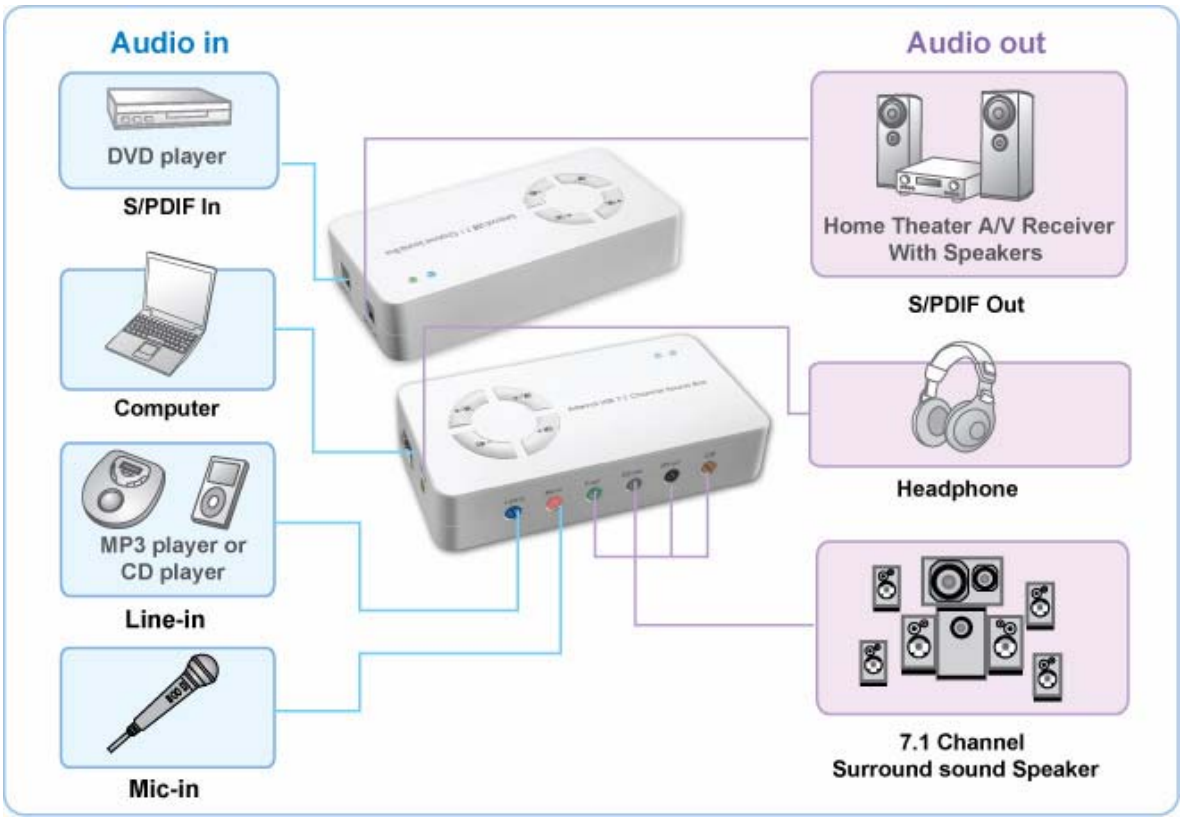
1. Introduction

The external USB 7.1 Channel Sound Box provides an amazing audio accessory for computer with a USB port. It is equipped with standard input and output connectors to add great stereo performance. The sound box not only combines high quality audio recording and playback capabilities but also allows the connection of most popular audio gear such as microphones, home stereos, musical instruments, amplifiers and powered speakers to your computer with USB ports. It is easy to add stereo 7.1 Channel sound effects to your computers with simply install plug-and-play operation for PC and Mac.

Note: For Windows® XP, Windows Vista® and Windows® 7 user only, the valued driver can support Xear 3D™, which makes your games sound better than ever when you play games. The fantasy magic voice and karaoke function makes you have karaoke party with more fun. You can change the atmosphere by choosing environment sound and the room size can be also selected.



Features

- Dramatically improve your PC/ Computer/ Notebook audio quality
- Auxiliary inputs for microphone, stereo, and other analog sources
- Volume controlled through your computer or by manually on the adapter
- Dolby® digital audio streaming via S/PDIF out
- USB remote wake-up support
- Volume up/ Volume down/ Playback mute/ Record mute HID button
- Virtual speaker shifter support
- Plug-and-play operation with Microsoft® OS/ Mac OS® default drivers
- Full-duplex playback/recording audio stream without wound card in PC
- Supports suspend/ resume and remote wake-up

Package Contents

- External USB 7.1 Channel Sound Box x1
- CD (Driver and User's Manual included) x1
- Quick installation Guide x1
- USB Type A to Type B Cable x1
- S/PDIF cable(optional) x1

System Requirements

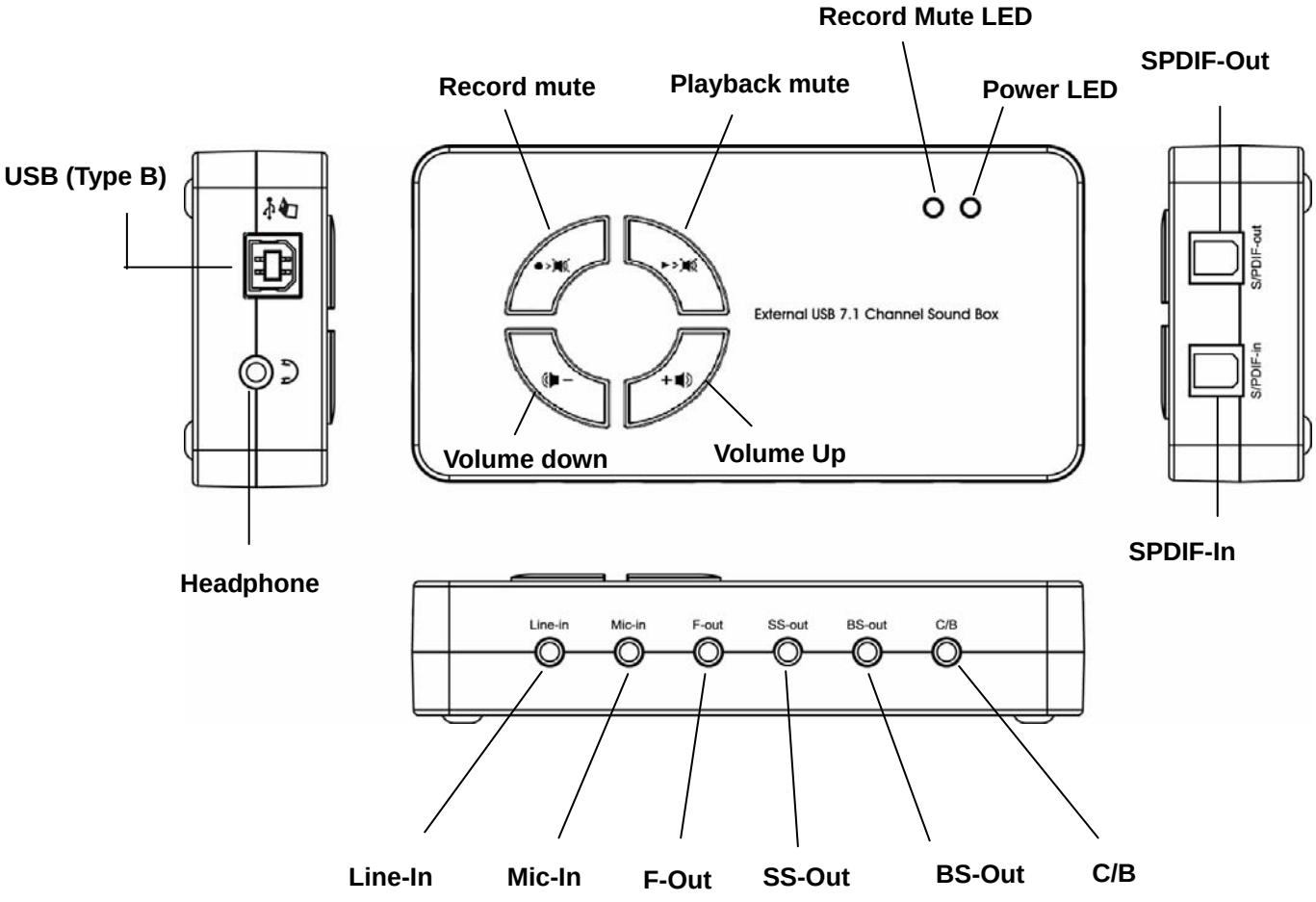
The minimum requirements for the PC are:

- Intel® Pentium® III or AMD K6 500 CPU above
- At least 128MB RAM
- At least 50 MB hard disk space
- PC or Mac with one USB port
- With one of the following operation systems :
  - Windows® 2000, Windows® XP, Windows Vista® and Windows® 7
  - Mac OS® X v10.x or later

2. Using the Adapter

How to Use Your Audio I/O Devices

No external driver installed under OS support of Windows® 7, Windows Vista®, Windows® XP, Windows® 2000, and Mac. Simply use a cable line to connect the External USB 7.1 Channel sound box and the available USB port of your PC or MAC and get the External USB 7.1 Channel Sound Box effects directly.



1. **7.1 Channel Speaker**

   Plug the speaker cable into the speaker/line-out jack as F-out (Front), SS-out (Surround), BS-out (Back) and C/B (Center/Subwoofer) on the USB 7.1 Channel Sound Box.

   Notice for Mac users:

   The speaker/line-out jack of 7.1 Channel Rear Surround and 7.1 Channel Surround are F-Out (Front), SS-Out (Back), BS-Out (Surround) and C/B (Center/Subwoofer) respectively.

2. **Microphone**

   Plug the *MONO microphone* into the Mic-in jack on the *USB Audio Adapter*.

3. **Stereo Audio Input**

   Plug the *STEREO line* into the Line-in jack on the *USB Audio Adapter*.

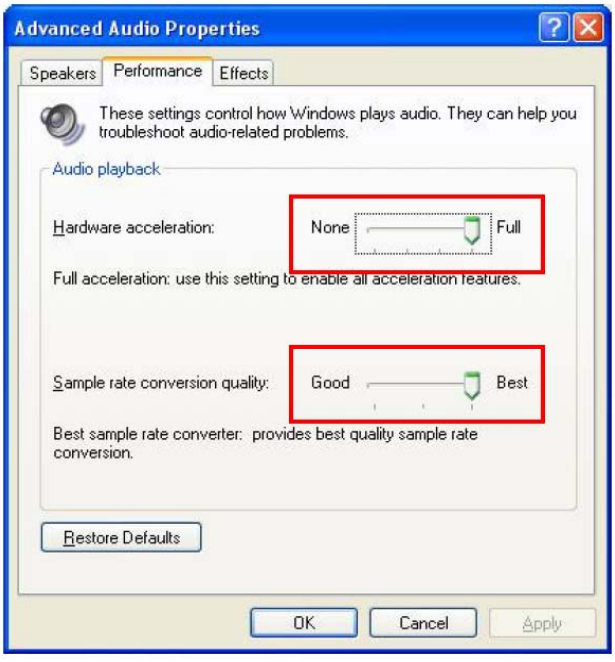
4. **Headphone**

   Plug the Headphone line into the headphone jack on the Sound Box.

5. **Power LED Indicator:** Lights up when powered on; flash when operation.

   Record Mute LED Indicator: Lights up for recording muted, lights off for recording function can be used.

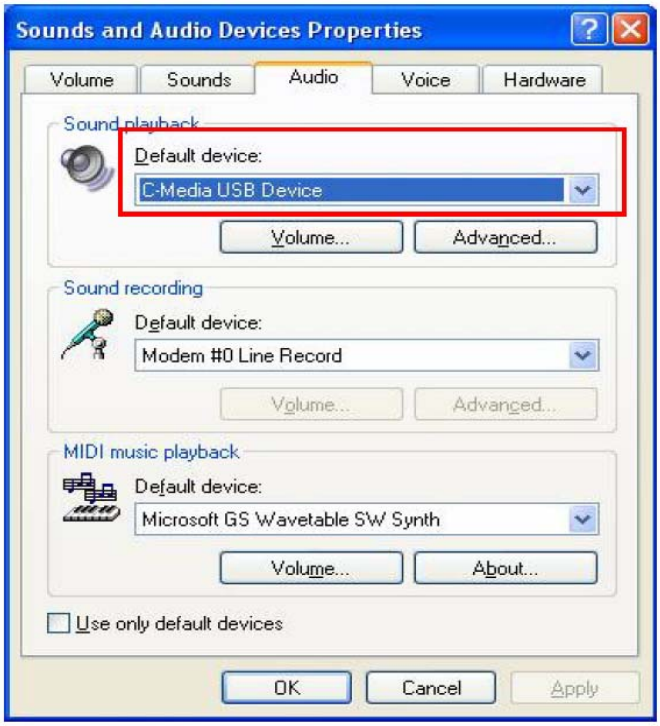
6. To enhance your audio performance, set your audio properties to the **full hardware acceleration** and the best **sample rate conversion quality**.



Note：

Some USB Host Controller may have problem with data stream package loss, this will influence output audio data and make some discontinuous sound. But this is very rare.

Sometime, when user plug USB Personal Multi-media Device on PC system and OS cannot auto change audio device to USB audio; please switch the audio device to USB audio sound and audio devices properties in control panel.

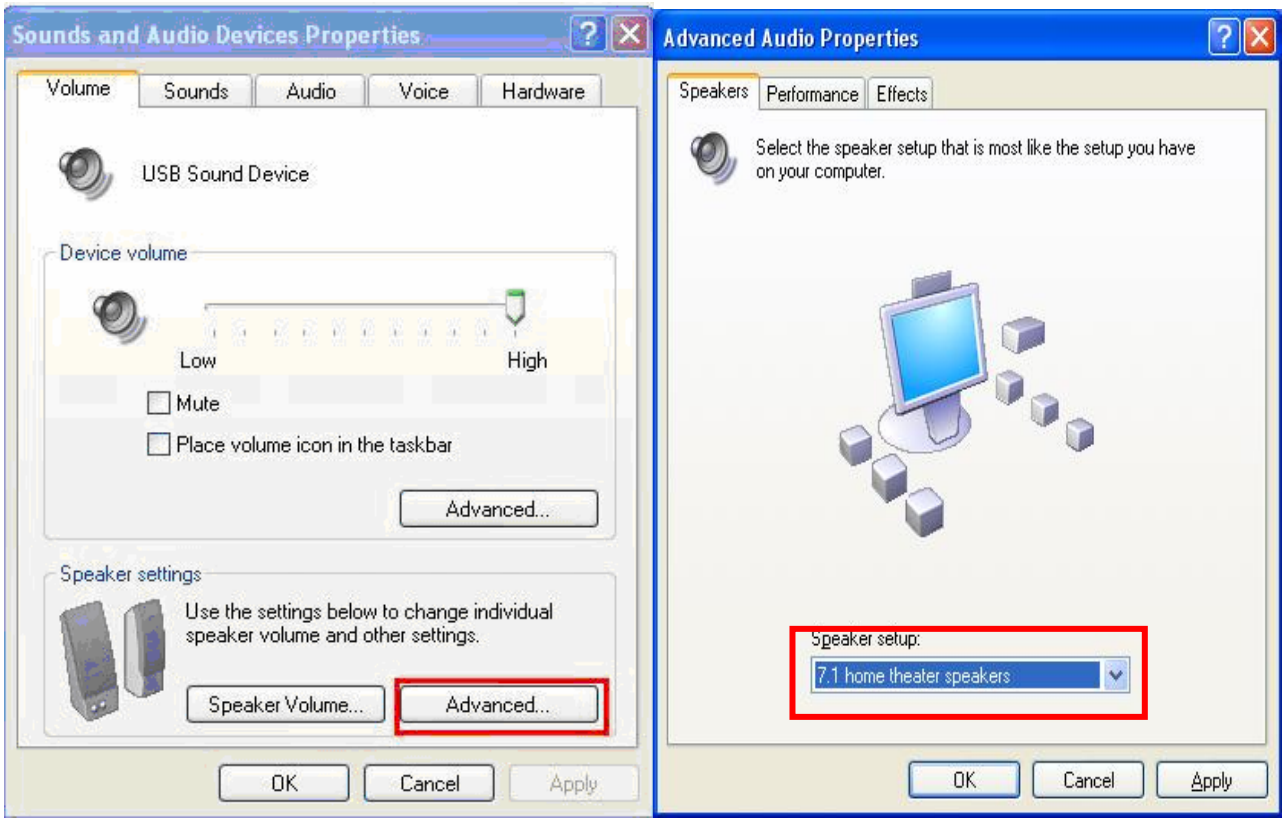


How to Setting 7.1 Surround Sound Speakers

On Windows® 2000 and Windows® XP

Please follow the steps and finished the 7.1 surround sound speakers setting.

My computer > Control Panel > Sounds and Audio Devices > Volume > Speaker Settings > Advanced > Speaker setup > 7.1 surround sound speakers.

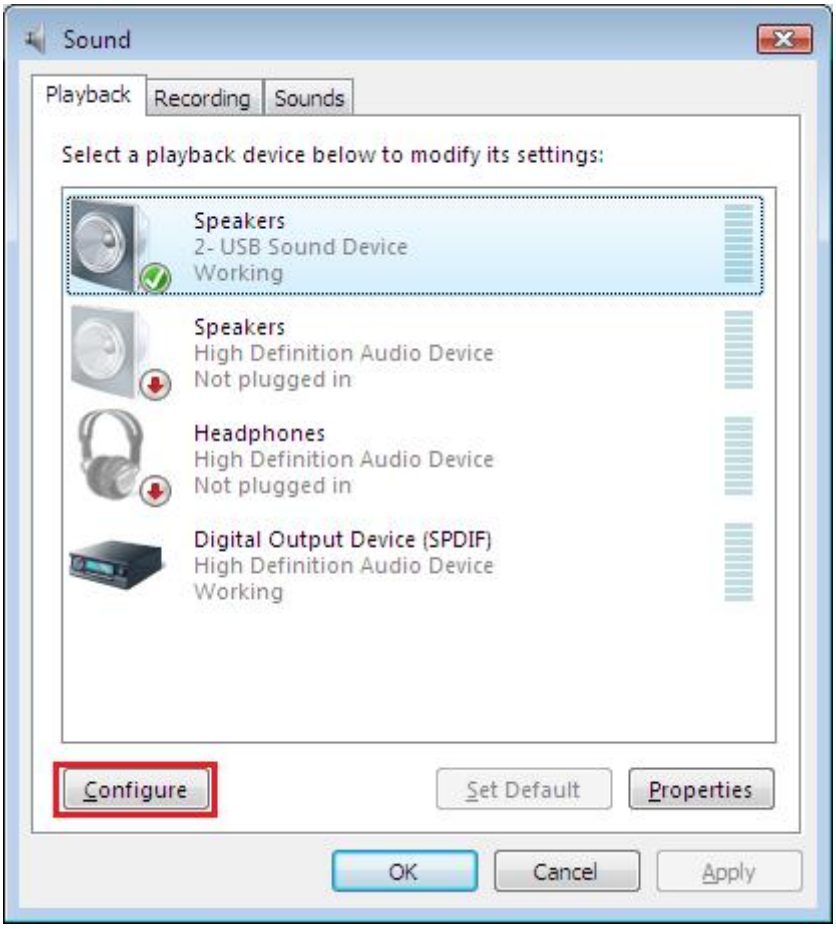


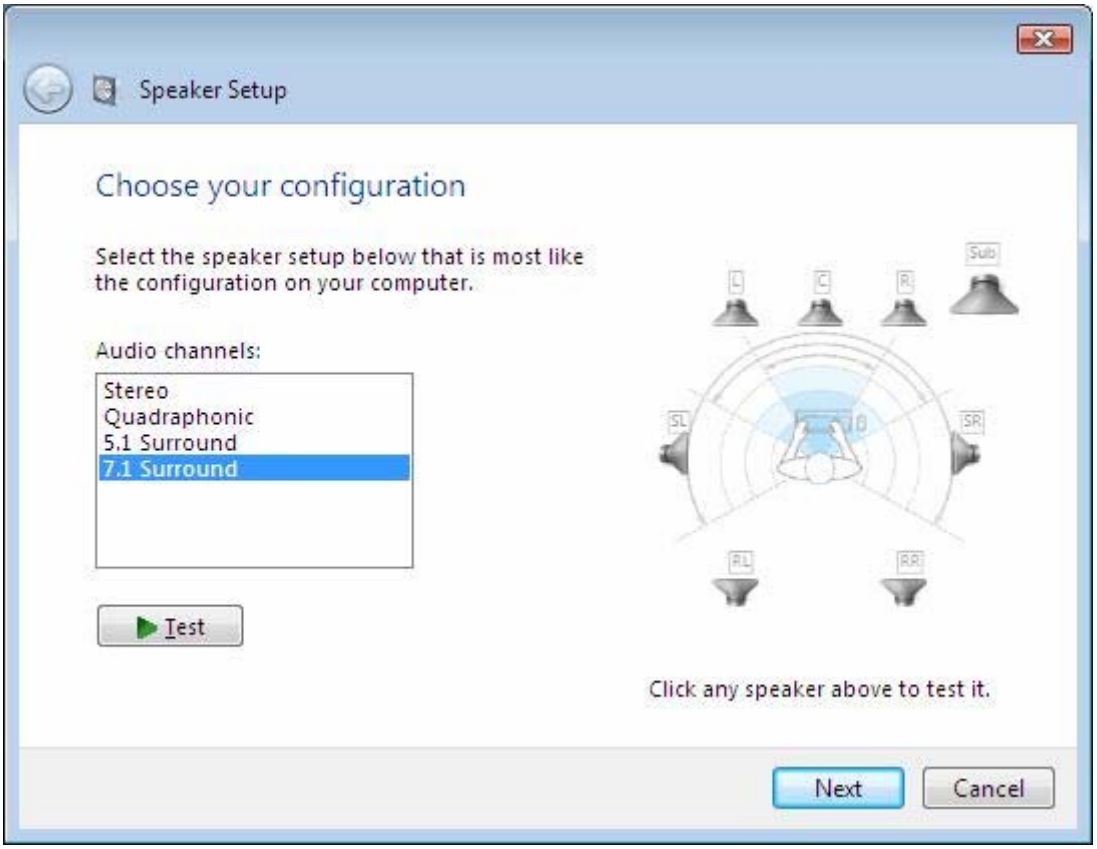
**Actual strings depend on your operation system. These screen shots are from Windows® XP and might vary slightly for each operation system.*

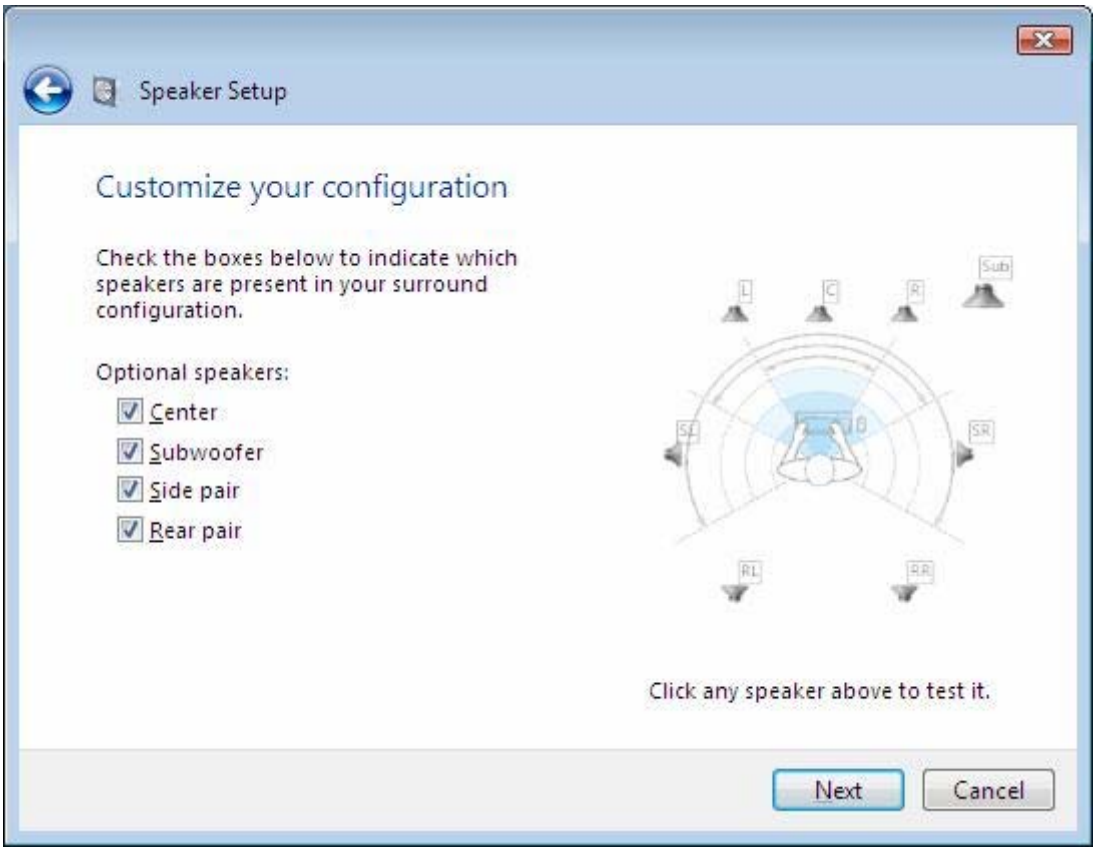
On Windows Vista®

Please kindly follow the steps and finished the 7.1 surround sound speakers setting.

Settings > Control Panel > Hardware and Sound > Playback > Configure > Speaker setup > 7.1 surround sound speakers.



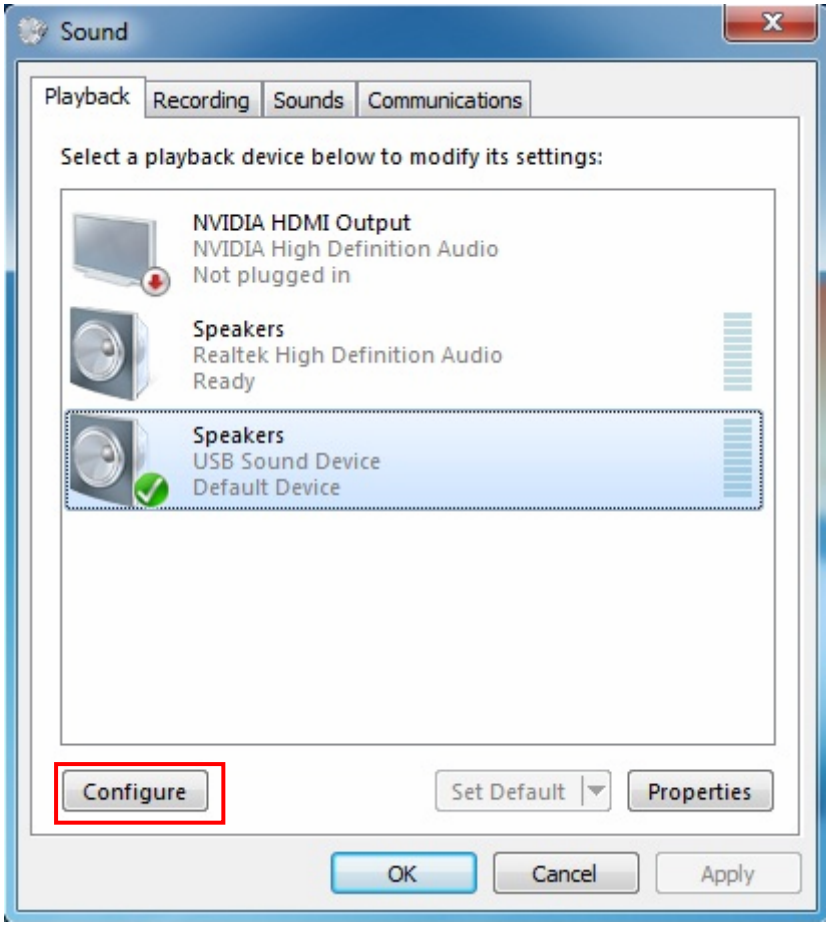

Speaker Setup
Choose your configuration
Select the speaker setup below that is most like the configuration on your computer.
Audio channels:
Stereo
Quadraphonic
5.1 Surround
7.1 Surround
Test
Click any speaker above to test it.
Next
Cancel

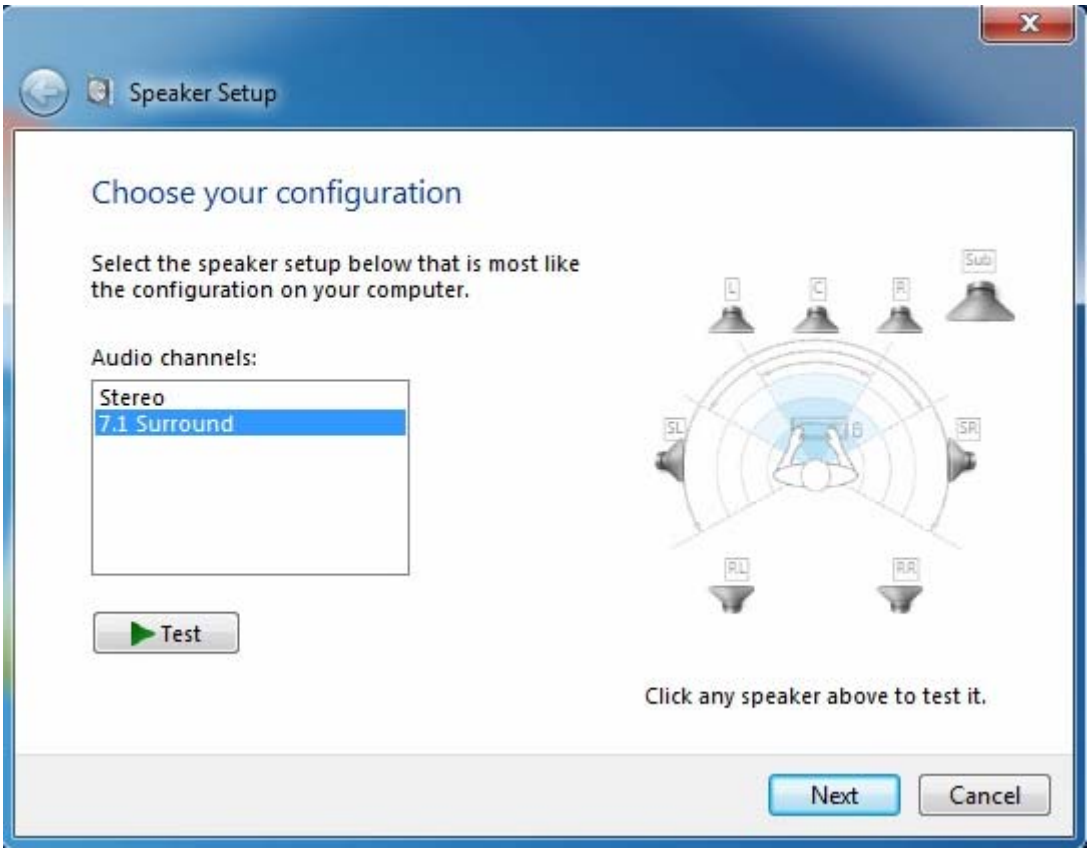

Speaker Setup
Customize your configuration
Check the boxes below to indicate which speakers are present in your surround configuration.
Optional speakers:
Center
Subwoofer
Side pair
Rear pair
Click any speaker above to test it.
Next
Cancel

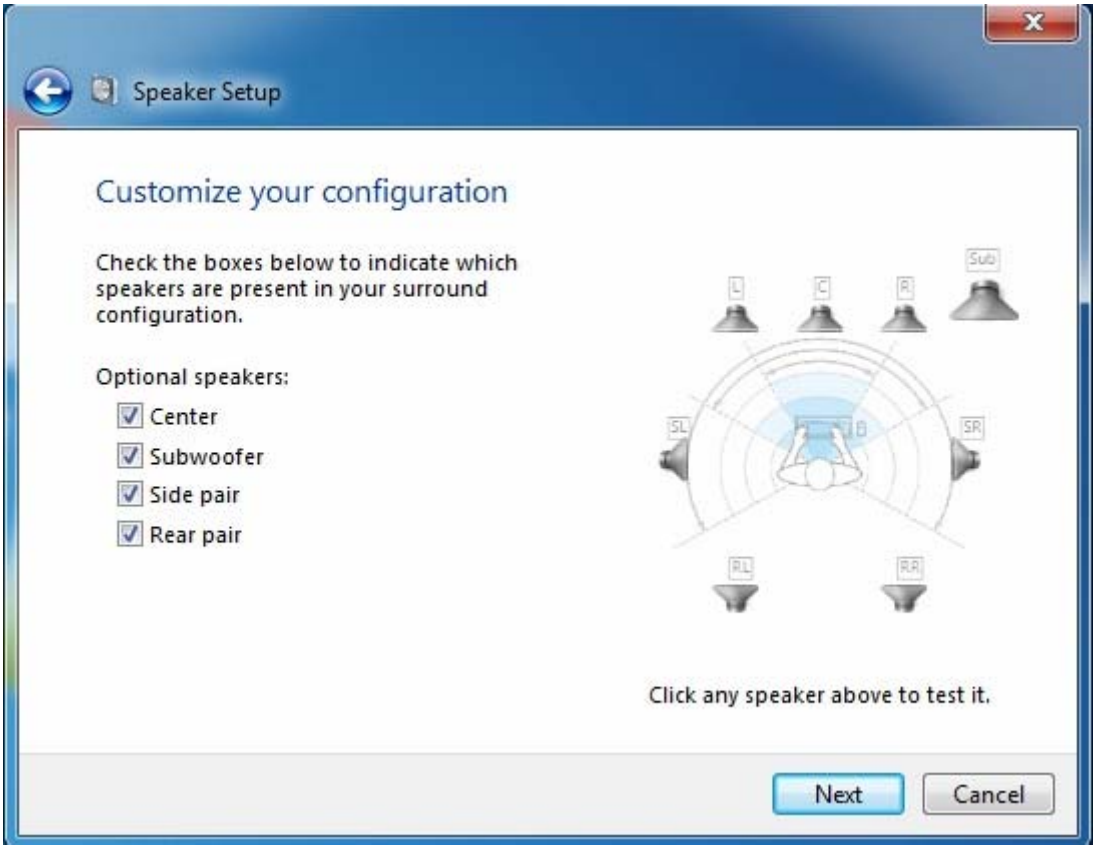
On Windows® 7

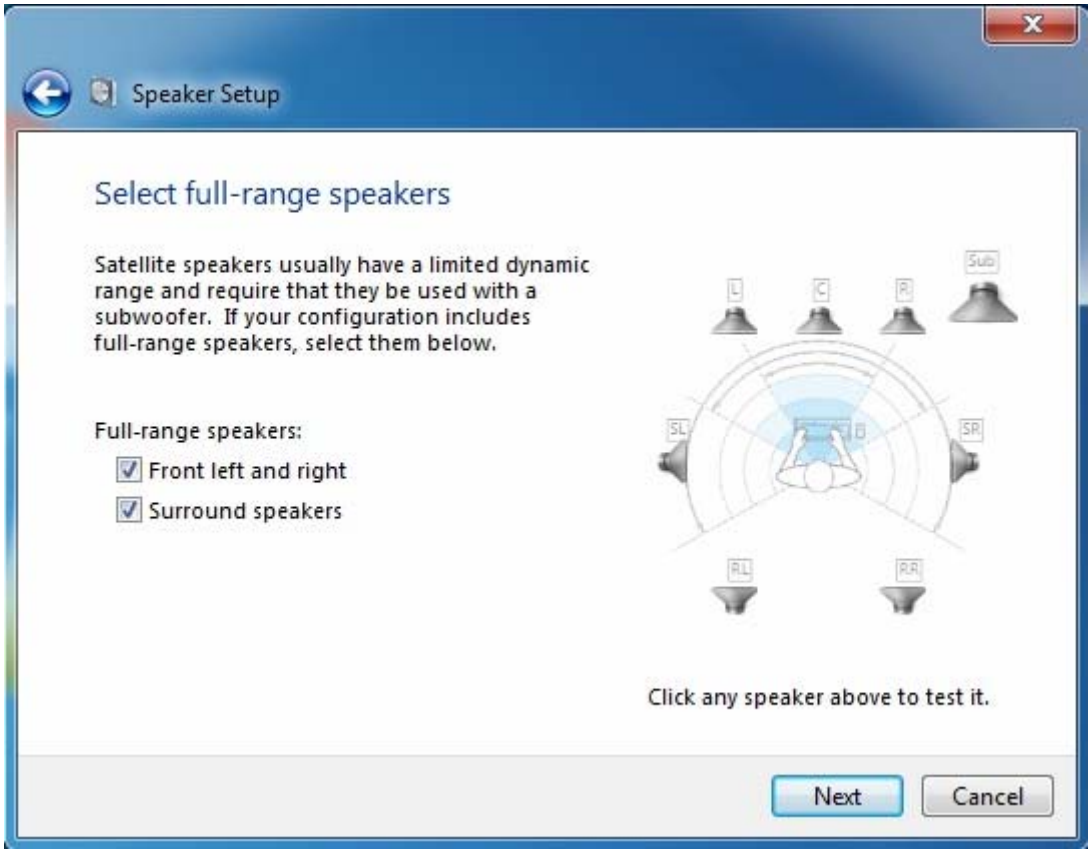
Please kindly follow the steps and finished the 7.1 surround sound speakers setting.

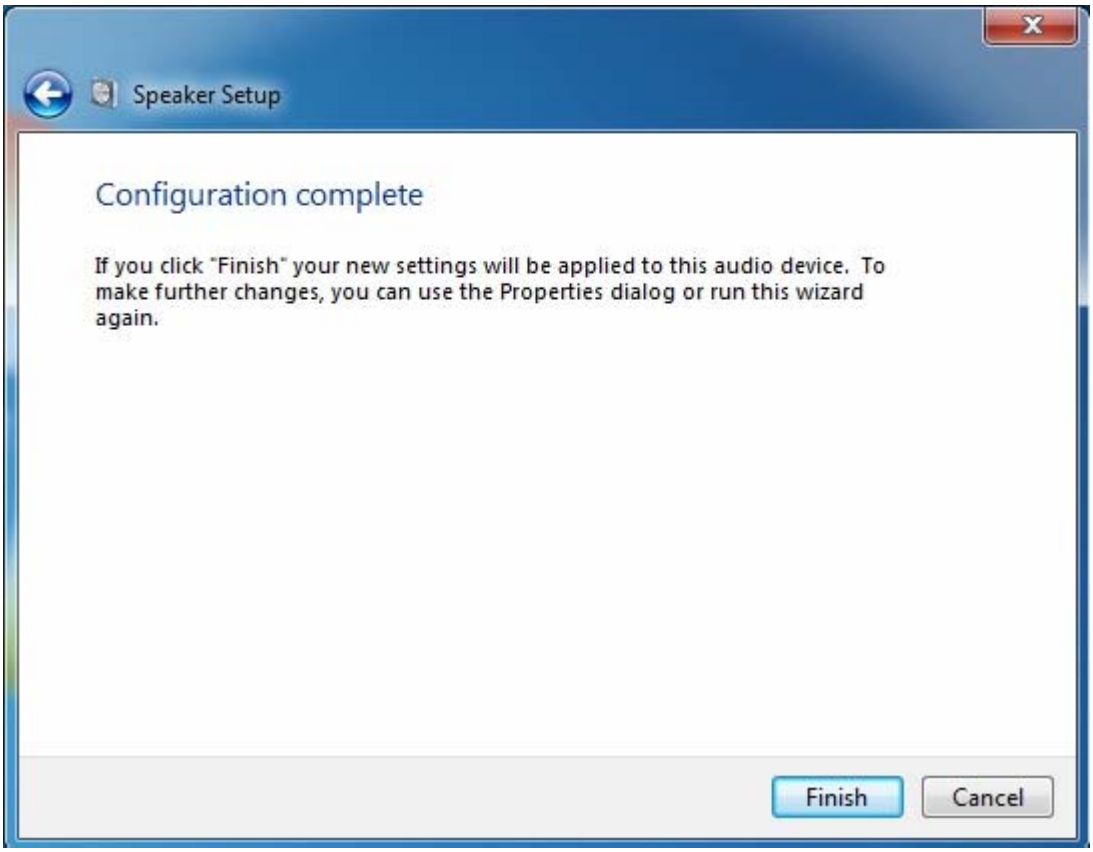
Settings > Control Panel > Hardware and Sound > Playback > Configure > Speaker setup > 7.1 surround sound speakers.




Speaker Setup
Choose your configuration
Select the speaker setup below that is most like the configuration on your computer.
Audio channels:
Stereo
7.1 Surround
Test
Click any speaker above to test it.
Next
Cancel


Speaker Setup
Customize your configuration
Check the boxes below to indicate which speakers are present in your surround configuration.
Optional speakers:
Center
Subwoofer
Side pair
Rear pair
Click any speaker above to test it.
Next
Cancel


Speaker Setup
Select full-range speakers
Satellite speakers usually have a limited dynamic range and require that they be used with a subwoofer. If your configuration includes full-range speakers, select them below.
Full-range speakers:
Front left and right
Surround speakers
L
C
R
Sub
SL
SR
RL
RR
Click any speaker above to test it.
Next
Cancel


Speaker Setup
Configuration complete
If you click "Finish" your new settings will be applied to this audio device. To make further changes, you can use the Properties dialog or run this wizard again.
Finish
Cancel

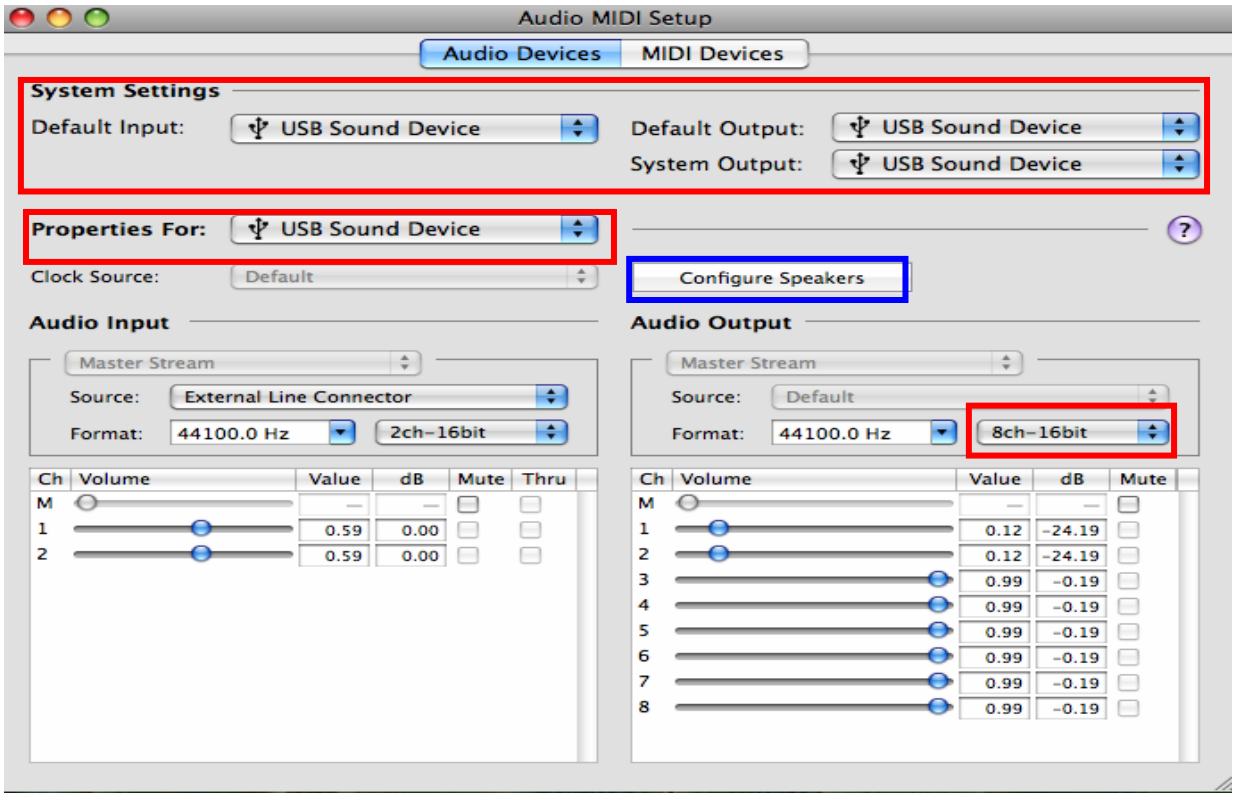
On Mac OS® X v10.x or later

Please kindly follow the steps and finished the 7.1 surround sound speakers setting.

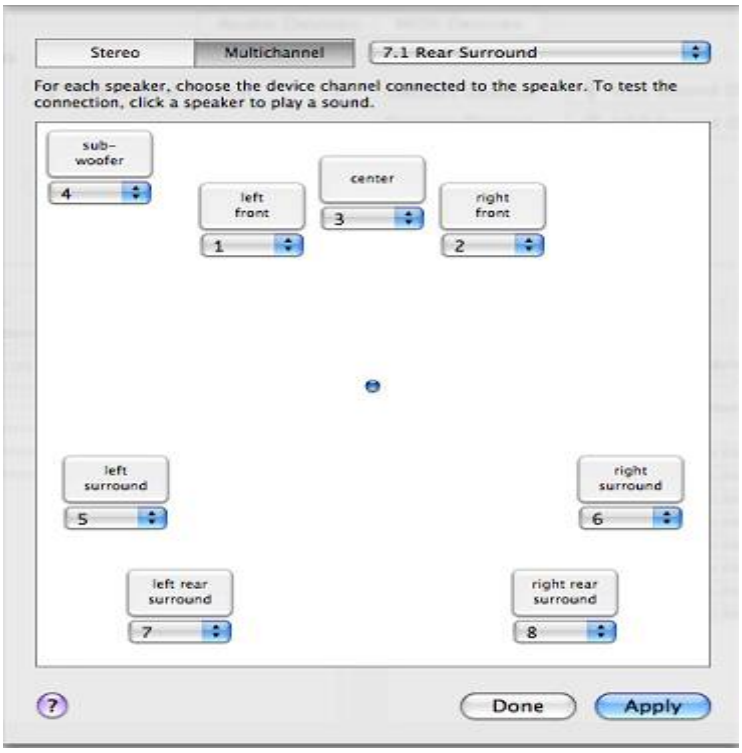
1. Select **Go** first and then chose **Utilities** after, keep select **Audio MIDI Setup** as below screen.

2. Under Audio MIDI Setup, open the **Audio Devices**, and make sure you have chose **USB Sound Device** under **System Settings** and **Properties For**. Also please check Audio Output has setting the **Format: at 8ch-16bit.**

   After settings as above, please select **Configure Speakers** and going to next step.

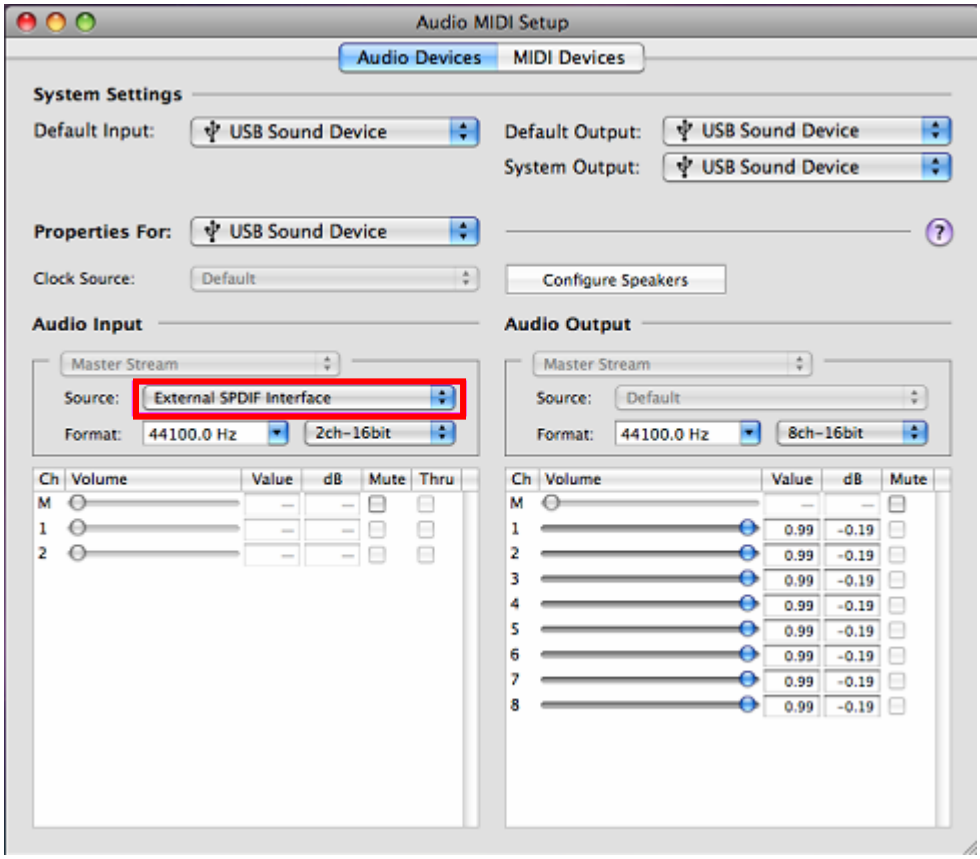


3. Select **Multichannel** then chose **7.1 Rear Surround**, and now the setting has finished.

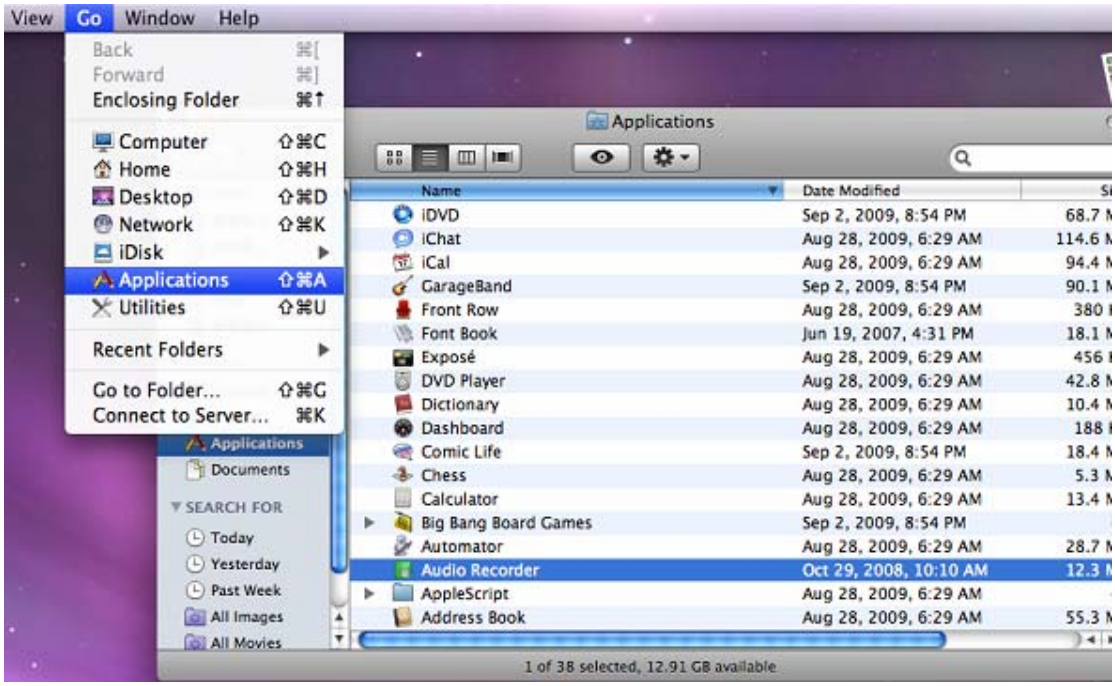


4. Recording Function in SPDIF IN.

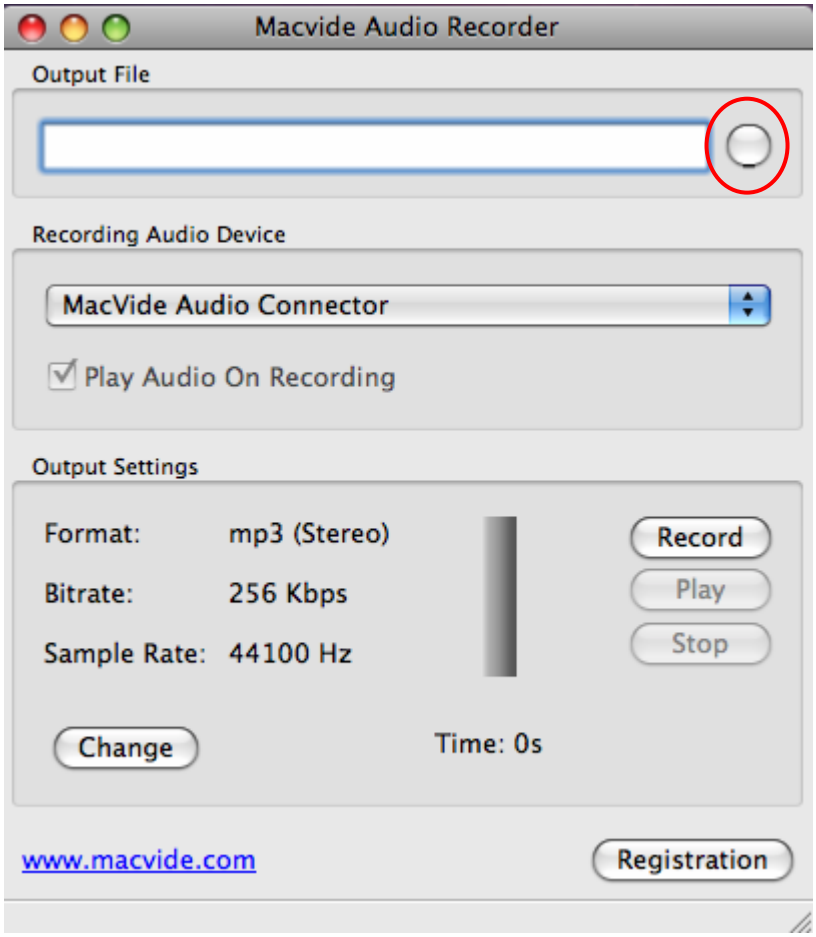
After settings as above, please select **External SPDIF Interface** under source.



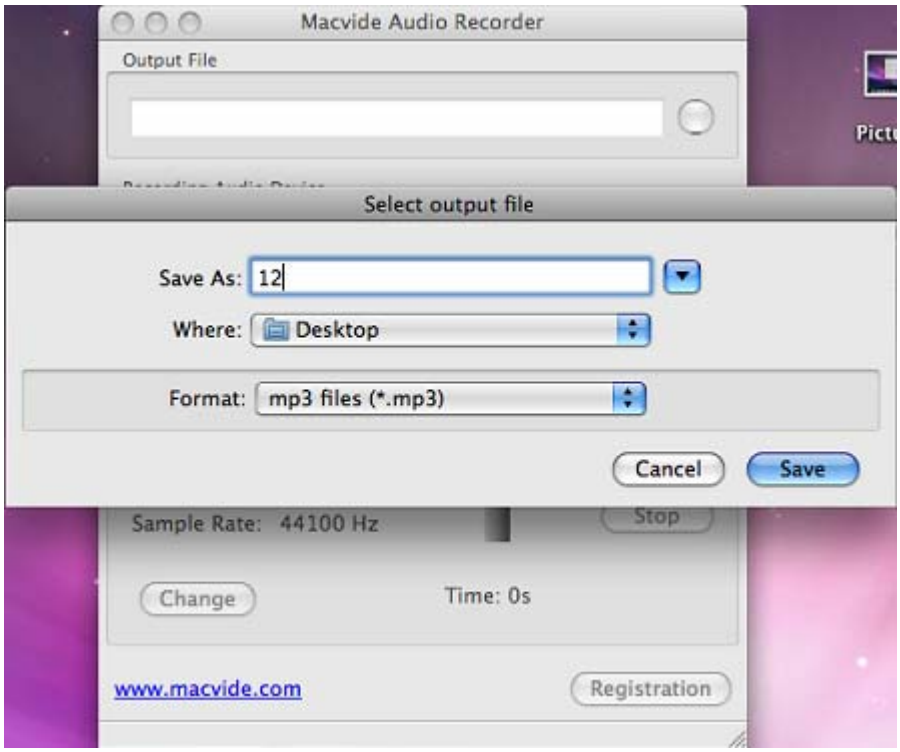
5. Please open Audio Recorder, and double click Audio Recorder.
（The Audio Recorder may vary by different System）。



6. Please click the red circle next to Output File to choose which file you want to save to.



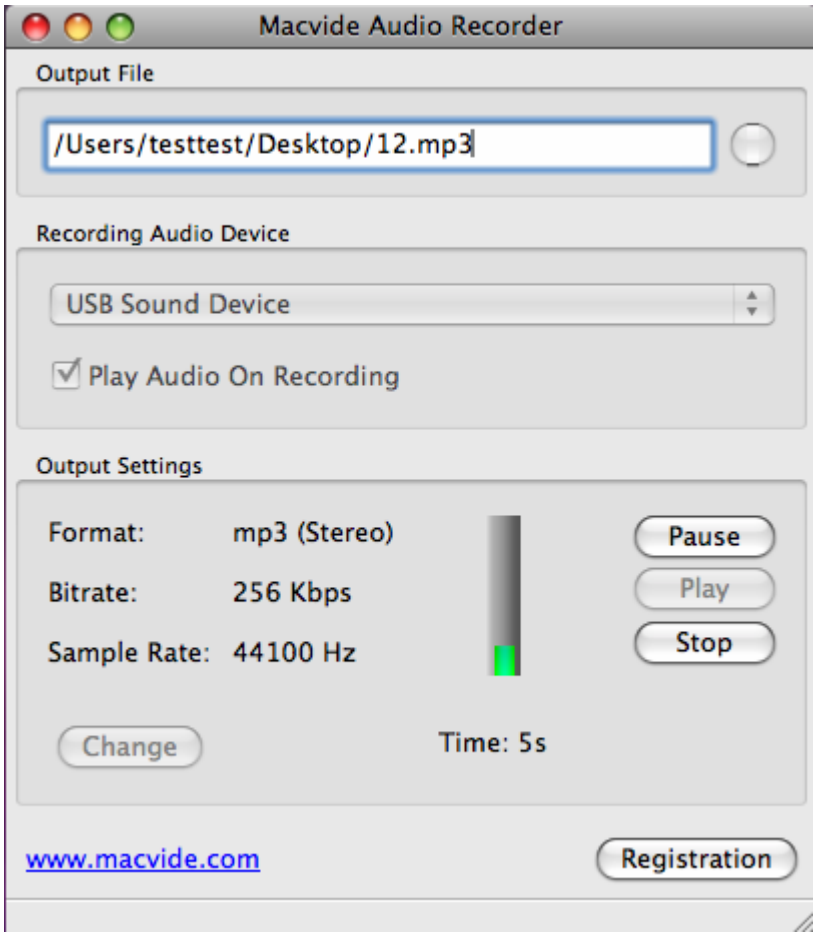
7. Please name the file.



8. Please click save and the following screen will show up.

9. Please choose USB Sound Device under Recording Audio Device.

10. Please click Record to start recording.



3. Application Software Installation

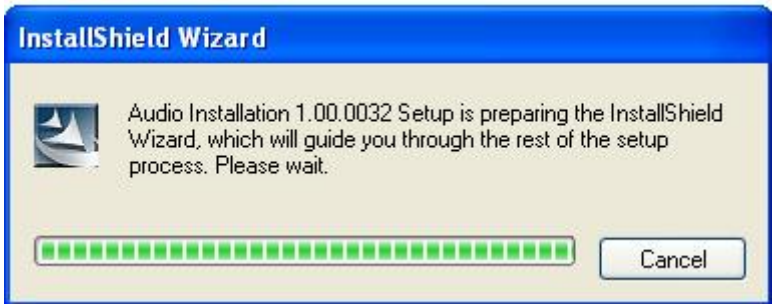
For Windows® XP and Windows Vista® and Windows® 7

Notice：This application software allows you have extra functions as Karaoke, microphone echo, magic voice, key shifting and vocal canceling…etc. Only support on Windows® XP, Windows Vista® and Windows® 7.

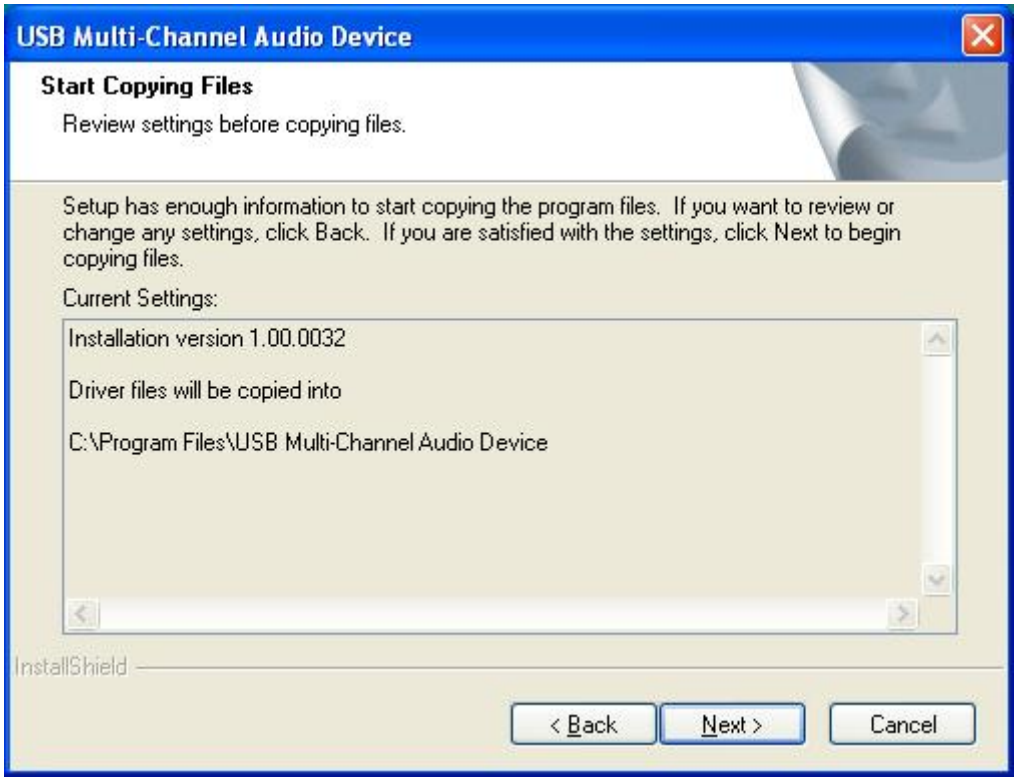
Connect the adapter first and then follow the procedures below to install the driver.

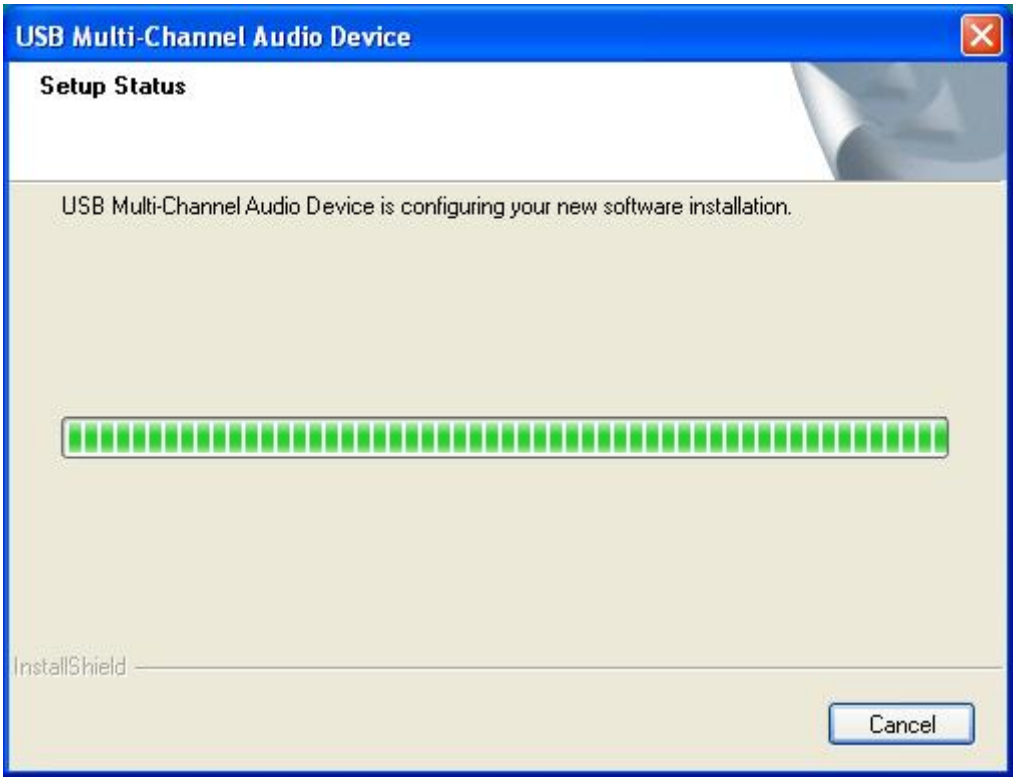
1. Connect the USB 7.1 Channel Adapter to your USB port of computer first, and insert provided CD into CD-Rom. You may find the screen pop up as below. You may find the **USB Audio Device** screen pop in the notification area as below.

2. Please follow the steps and process the installation.


InstallShield Wizard
Audio Installation 1.00.0032 Setup is preparing the InstallShield Wizard, which will guide you through the rest of the setup process. Please wait.
Cancel

3. When the USB Multi-Channel Audio Device screen appears, Click on **Next**, and you may find the **Setup Status** process automatically as below screen.


USB Multi-Channel Audio Device
Start Copying Files
Review settings before copying files.
Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.
Current Settings:
Installation version 1.00.0032
Driver files will be copied into
C:\Program Files\USB Multi-Channel Audio Device
InstallShield
< Back
Next >
Cancel



4. After USB Multi-Channel Audio Device Driver installation complete, please select Yes, and reboot the computer to effect the driver install.

USB Multi-Channel Audio Device
Installation is complete. You must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Finish

5. After reboot and system running up again, a pop-up message will appear in the notification area indicating the installation is complete. You may click it to open and for functions control.

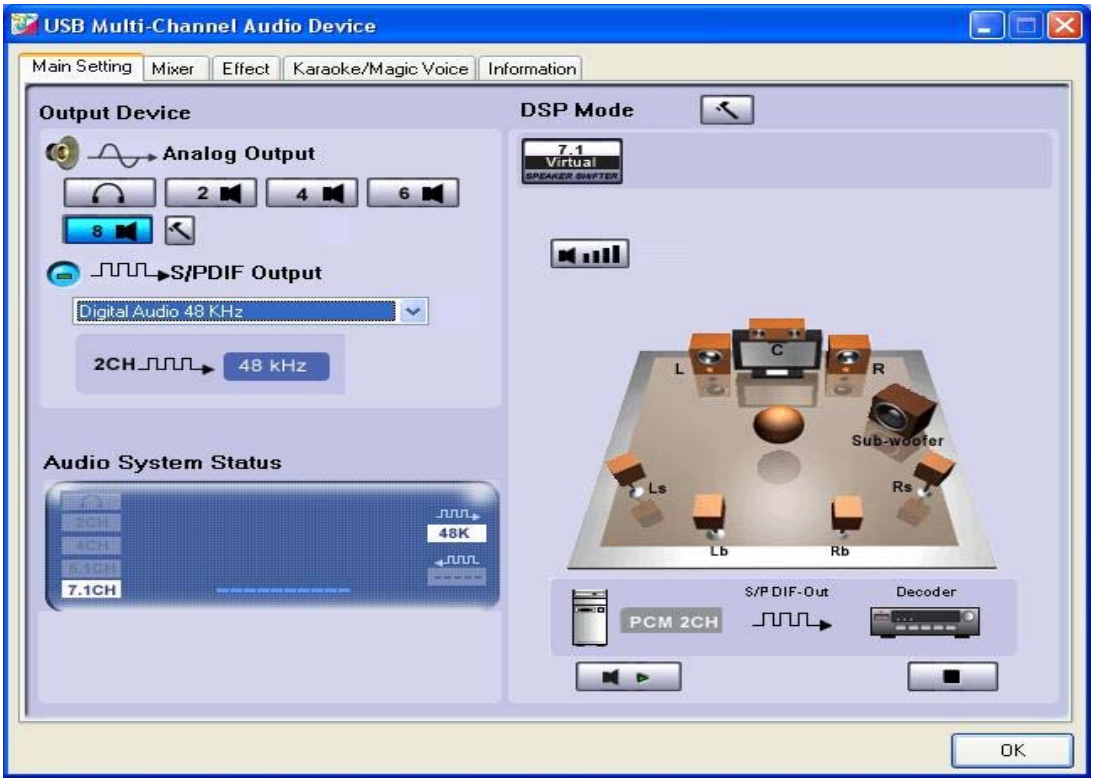
**Actual strings depend on your operation system. These screen shots are from Windows® XP and might vary slightly for each operation system.*

Using Interface and Function Control

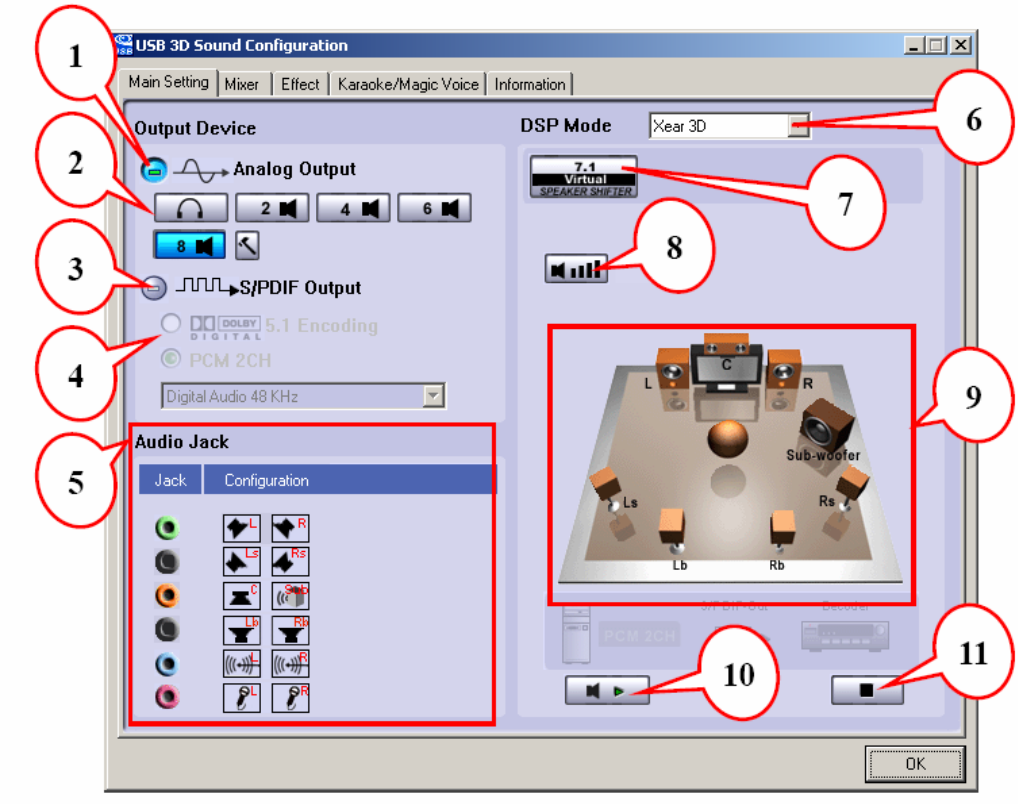
This section will show you the using Interface and function control.

Please **Right click** the **USB Multi-Channel Audio Device icon** to use the function as Volume Control, Windows Media Player, Sound Recorder and Multimedia Properties.

To open the Using interface, please **Left click** the USB Multi-Channel Audio Device icon and select **Open**, or **double click** the USB Multi-Channel Audio Device icon to entry the Using Interface.



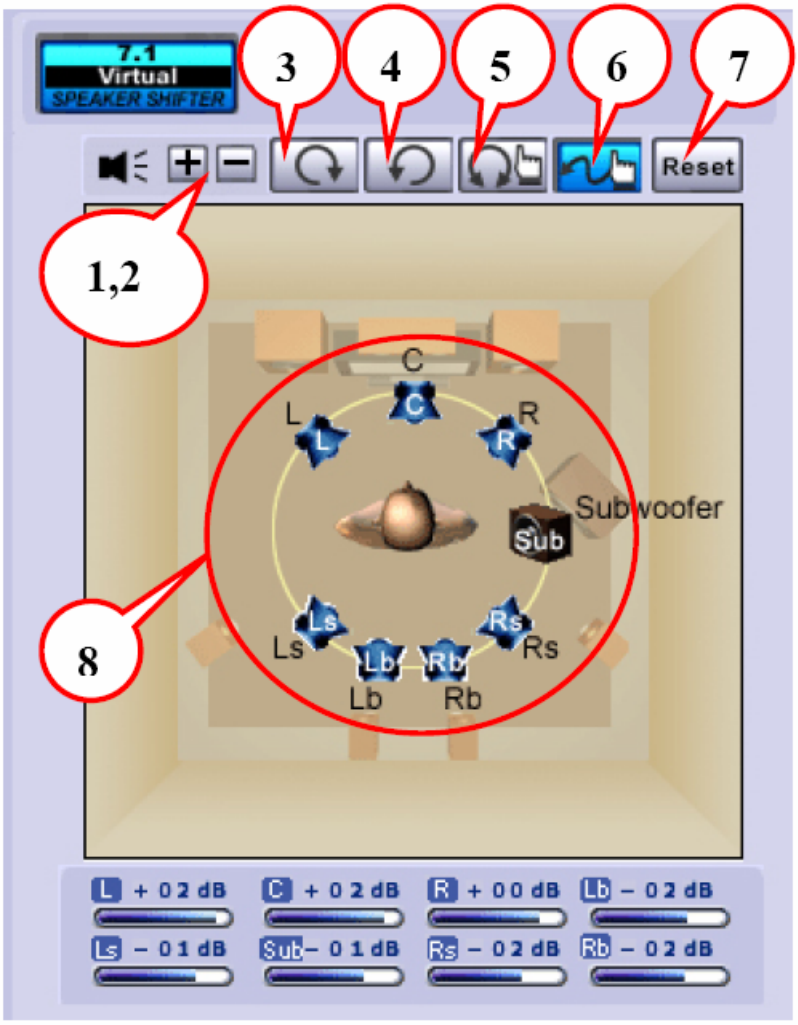
Main Setting



Using Analog Output

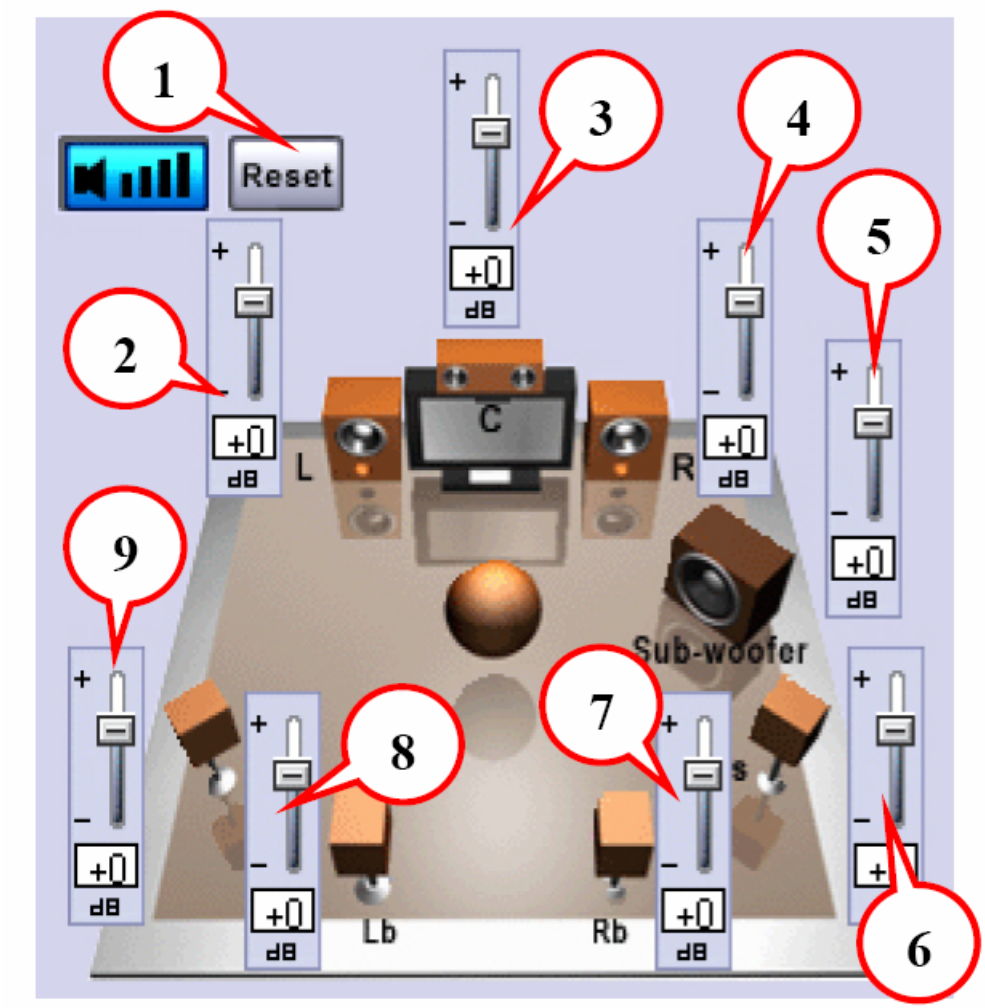
1. **Analog Output**：Turn on this button then can select analog output channels mode.
2. **Analog Output channels Mode**：Earphone, 2CH, 4CH, 6Ch and 8CH for selected.
3. **Digital Output**：Turn on this button then can select SPDIF Out data format.
4. **Digital Output Mode**：Dolby RTCE, PCM for selected.
5. **Audio Jack Connected Display**
6. **DSP Mode**：Pull down to select different DSP Mode. (Default support Xear 3D)
7. **Virtual SPEAKER SHIFTER**：Can open SPEAKER SHIFTER windows for control. (For detail information see the next page)
8. **Digital Volume Control**：Can open each channel to adjust digital volume. (For detail information see the next page)
9. **Channel Display & Speaker Test**：Can show analog output channel status and directly click speaker graphic can do sound testing.
10. **Auto Sound Test**：Can auto testing every channel sound effect.
11. **Stop Auto Sound Test**：Can stop auto testing.

Victual Speakers Shifter

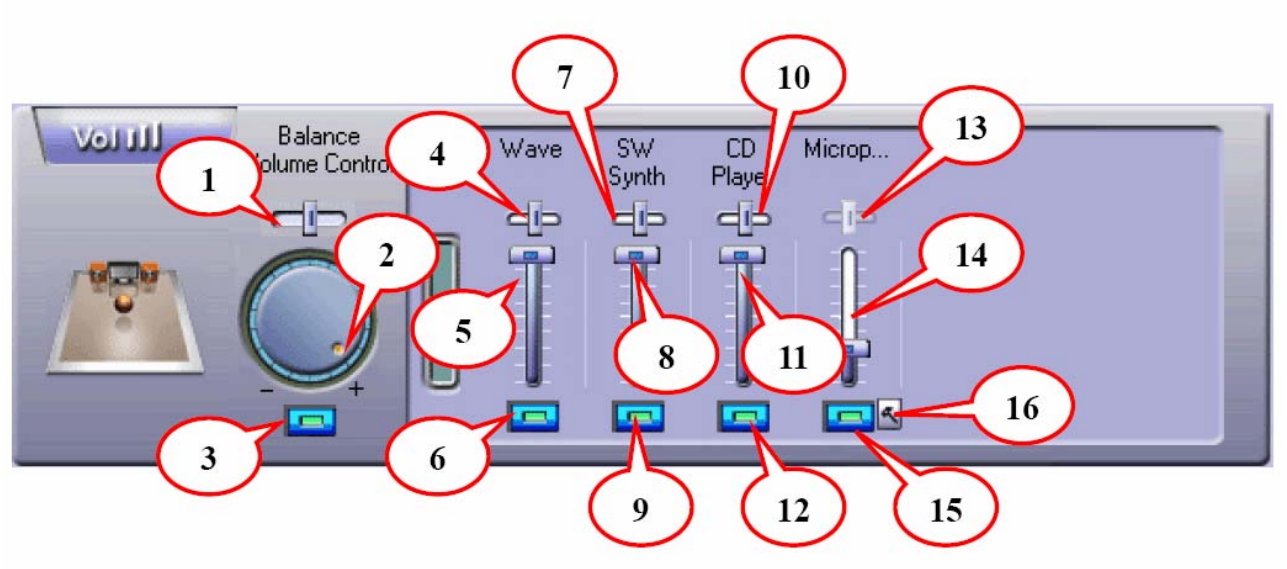


1. **Total Volume Up Control**
2. **Total Volume Down Control**
3. **Clockwise**
4. **Counter Clockwise**
5. **Manual Rotation**
6. **Manual Shifter**
7. **Reset**
8. **Shifter Drag**

Digital Volume Control

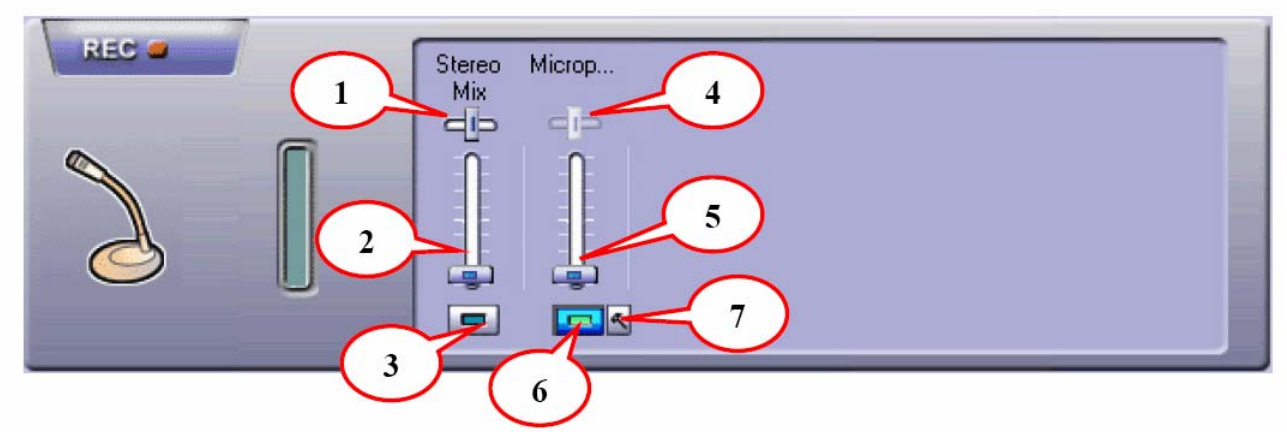


1. **Reset Volume**
2. **Left Channel Control**
3. **Center Channel Control**
4. **Right Channel Control**
5. **Subwoofer Channel Control**
6. **Rear Right Channel Control**
7. **Right Back Channel Control**
8. **Left Back Channel Control**
9. **Rear Left Channel Control**



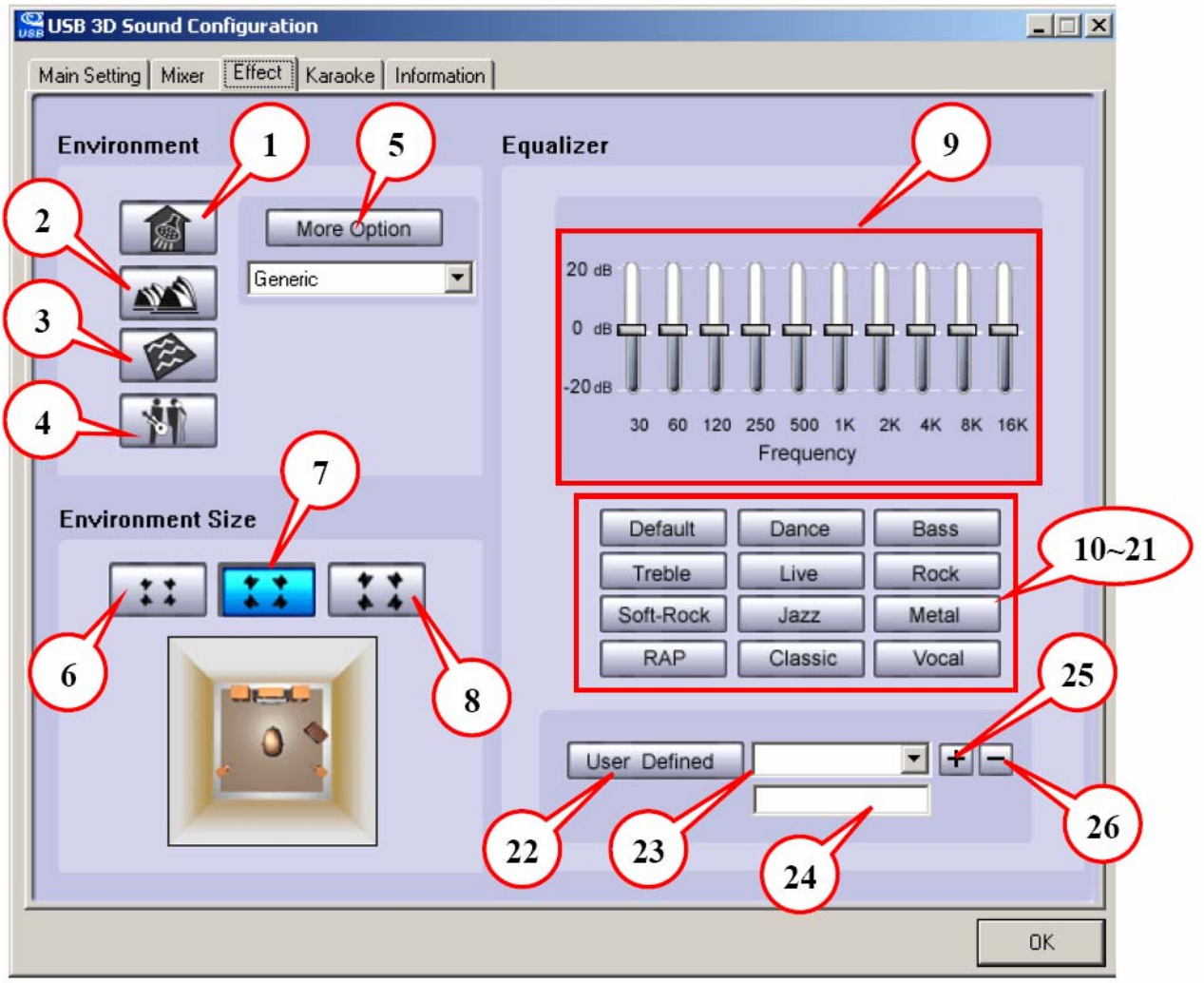
1. **Balance Control**
2. **Volume Up/Down Control**
3. **Master Volume On/Off**
4. **Wave Volume Balance**
5. **Wave Volume Control**
6. **Wave Volume On/Off**
7. **SW Synth Volume Balance**
8. **SW Synth Volume Control**
9. **SW Synth Volume On/Off**
10. **CD Volume Balance**
11. **CD Volume Control**
12. **CD Volume On/Off**
13. **Microphone Balance**
14. **Microphone Control**
15. **Microphone On/Off**
16. **Microphone Advanced Setting**

Recording Volume Control



1. **Stereo Mixed Balance Control**
2. **Stereo Mixer**
3. **Stereo Mixer**
4. **Microphone Record Balance**
5. **Microphone Record Volume Control**
6. **Microphone Record On/Off**
7. **Microphone Record Advanced Setting**

Effects

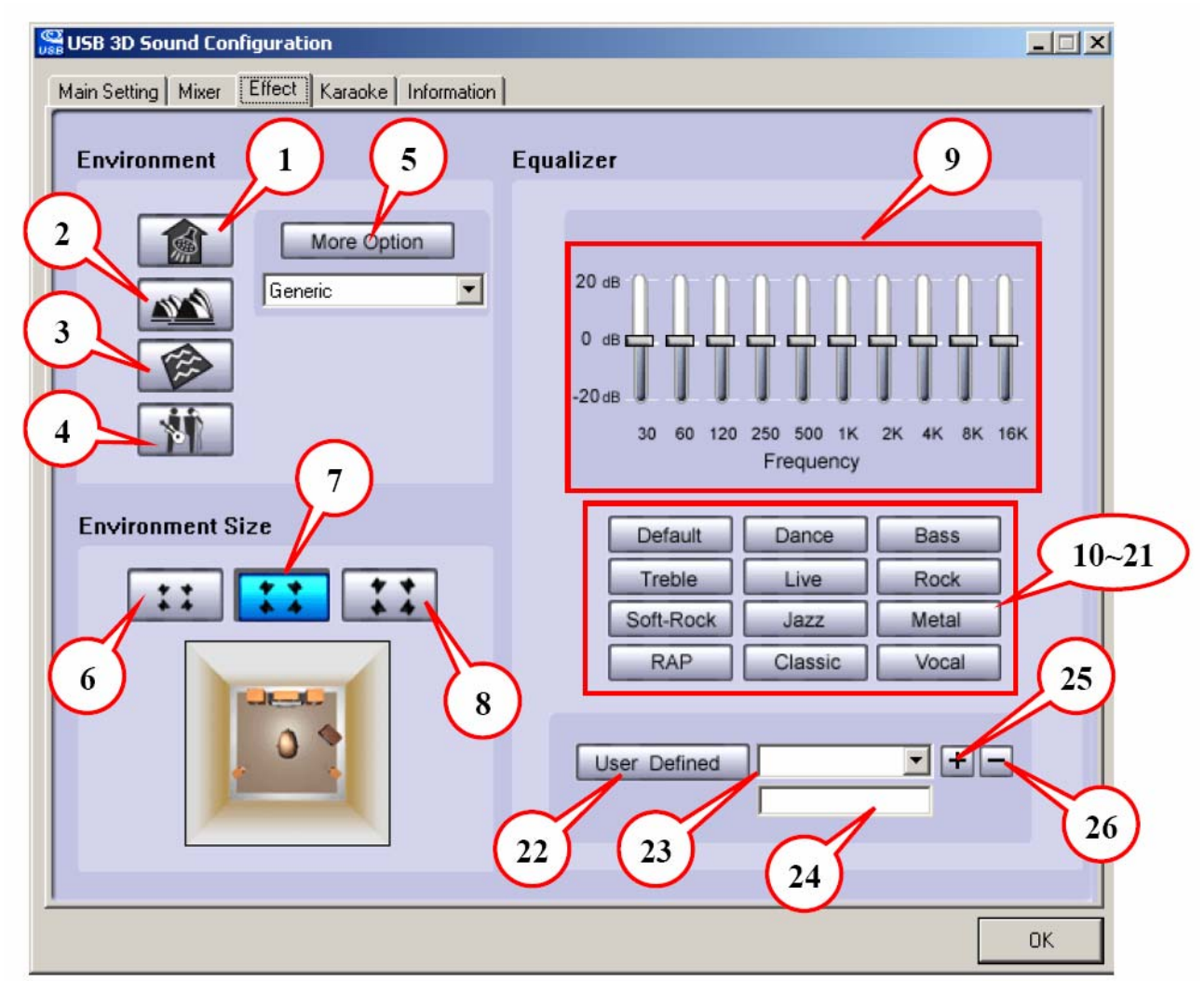


Environment

1. **Bathroom**
2. **Opera**
3. **Underwater**
4. **Music Pub**
5. **More option：27 mode for selected**

Environment Size

6. **Large**
7. **Middle**
8. **Small**



Equalizer

9. Ten Band Equalizer Adjust

10. Pre-Set Mode (Default)

11. Pre-Set Mode (Dance)

12. Pre-Set Mode (Bass)

13. Pre-Set Mode (Treble)

14. Pre-Set Mode (Live)

15. Pre-Set Mode (Rock)

16. Pre-Set Mode (Soft-Rock)

17. Pre-Set Mode (Jazz)

18. Pre-Set Mode (Metal)

19. Pre-Set Mode (RAP)

20. Pre-Set Mode (Classic)

21. Pre-Set Mode (Vocal)

22. Equalizer User Define On/Off

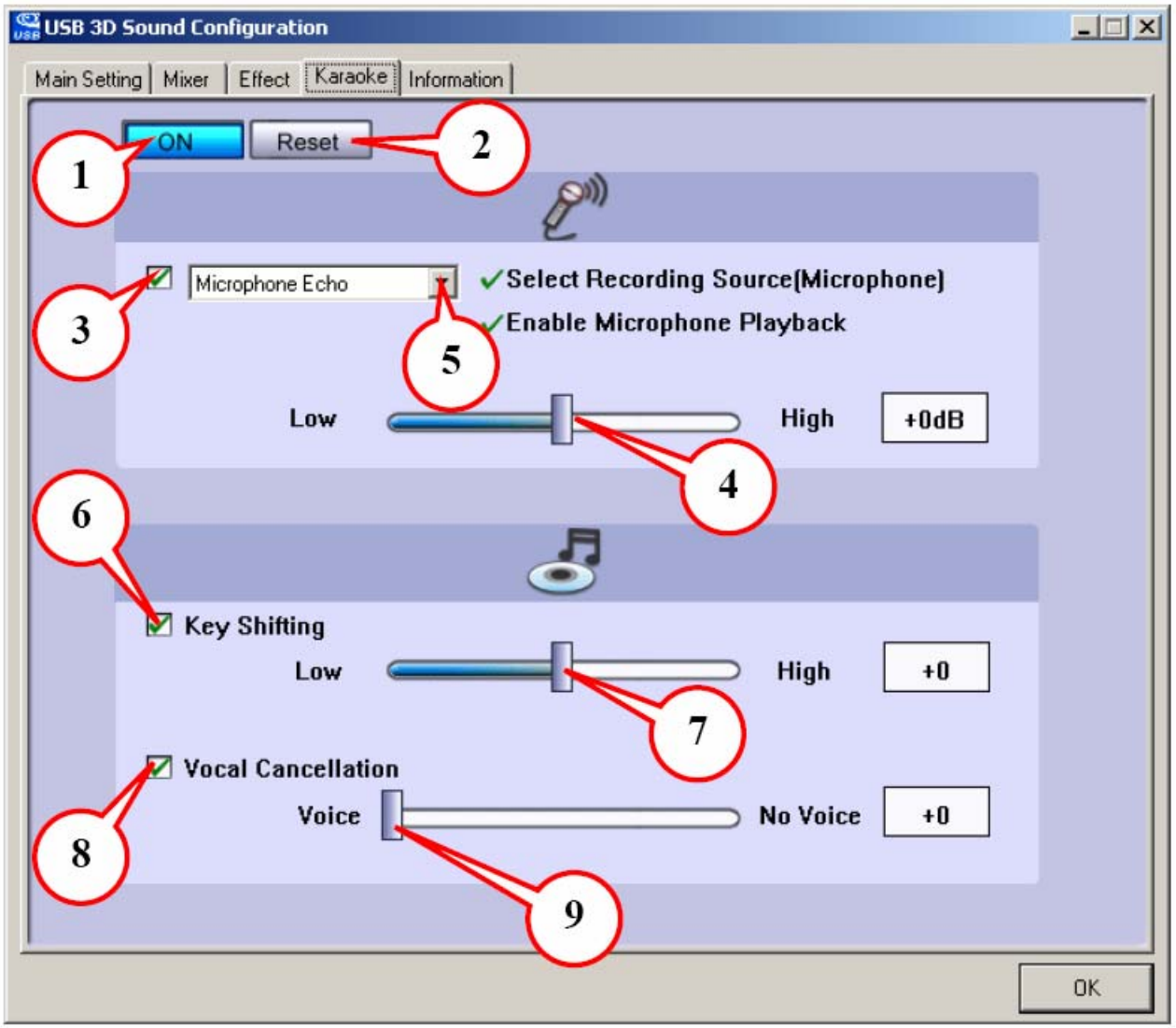
23. Pull to select user define mode

24. User Define naming key in

25. Add new user define mode

26. Del user define mode

Karaoke



1. **Karaoke On/Off**：Click this button then can control all karaoke functions.
2. **Karaoke Setting Reset**：Can reset all setting to default value
3. **Start Microphone Echo Function**：Select this button will pop up a dialog box to enable microphone function.

   Click “OK” button to select recording source and enable microphone

Microphone
The driver will select microphone input as the recording source for the microphone effect.
Don't show this again.
OK
Cancel

4. **Echo Low/High Control Bar**：Adjust echo low/high
5. **Magic Voice Function (Optional)**：This function only supported in multi-channel audio products.

   When you enable microphone echo then can pull down the menu to select magic voice. Magic voice provides 5 different effects for choice.

6. **Start Key Shifting Function**：Select this button to enable key shifting function and control.
7. **Key Shifting Low/High Control Bar**：This function can adjust tune of background music to fit your singing.
8. **Star Vocal Cancellation Function** ： Select this button to enable vocal cancellation function and control.
9. **Vocal Canceling Control Bar** ： This function can control singer's vocal of background music and cancel it as possible.

3. Troubleshooting

1. No Sound

You can often resolve a few basic problems by checking:

- The power of the speaker
- The sound volume
- The cable connections
- The audio CD compatibility

2. No Sound Is Recorded

You can often resolve a few basic problems by checking:

- If the MIC is probably connected
- If the file is saved and opened properly

3. Why play CD without sound ?

Slimtype DVD-ROM LSD-081 Properties
General
Properties
DVD Region
Volumes
Driver
These settings determine the way in which Windows uses this CD-ROM for playing CD music.
CD Player Volume
Low
High
Digital CD Playback
You can have Windows use digital instead of analog playback of CD audio. This feature may not work with all CD-ROM devices, disable if you are having problems with CD audio.
Enable digital CD audio for this CD-ROM device.
OK
Cancel

Most general case was digital CD playback function did not open. Because USB audio is digital signal, it is use different path to process CD music with traditional analog CD.

You should open "Device Manager", select "DVD/CD ROM drives" and open it. Then switch to "properties" page and enable digital CD audio.

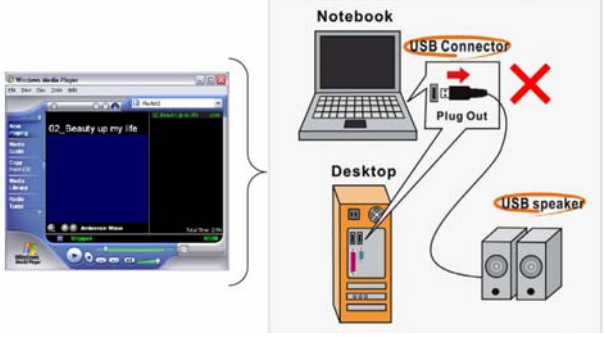
4. When using software application program (Like: Media player, Winamp, PowerDVD, WinDVD….) to playback any media files, can I plug out USB audio device while playing?

It is incorrect mode of operations, because while application programs were playing audio stream, windows system is stilling using audio device to process and deliver data real-time. So, when user plug out USB audio device windows system can not delivering audio data to the same device, so that system will be confused and make application programs failure or system crash.

The right way to plug out USB Audio device was stop playback function first. Especially when your Windows system was Win98SE or WinME, this corrected operation will keep stability of working system. Otherwise, uncorrected plug out will cause application program or system crash.

Note：

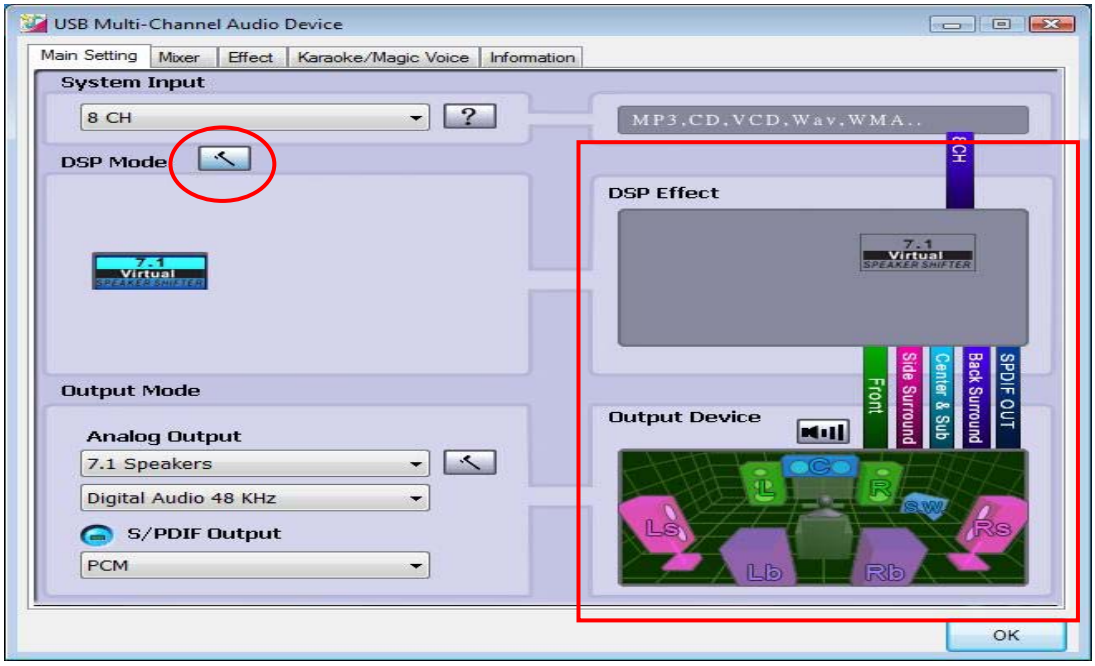
Do not plug out while application programs were playing media files. Please stop playback before plug out USB audio device.



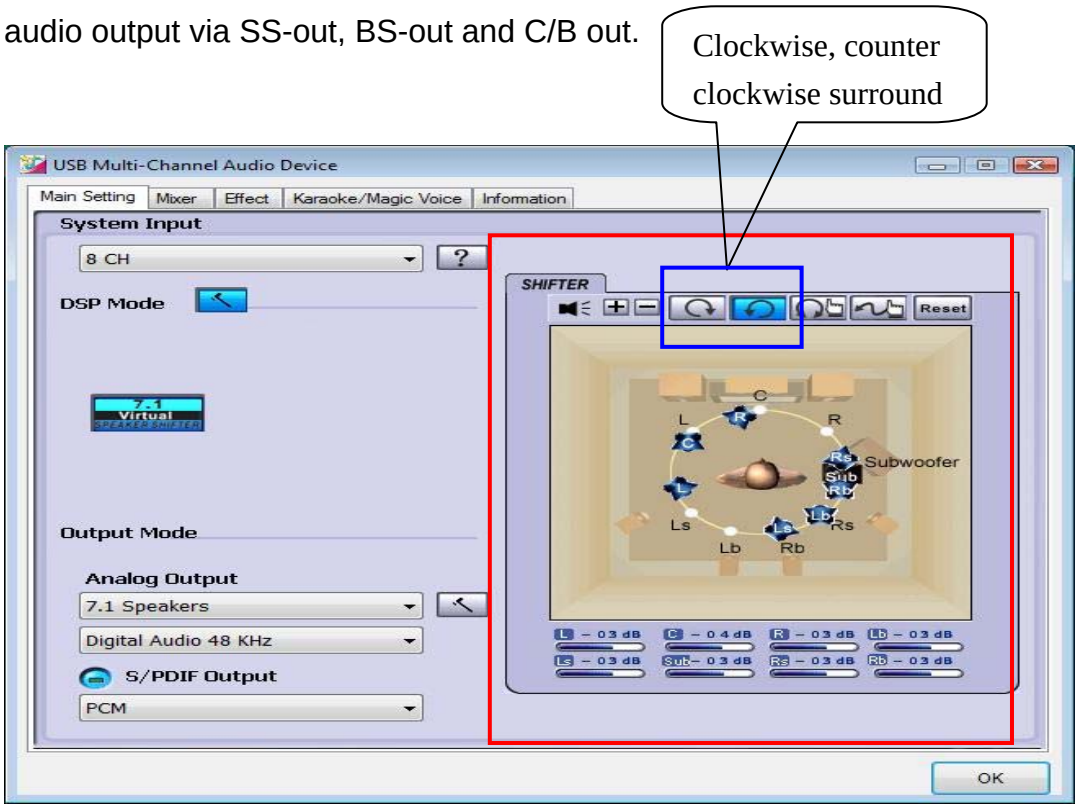
5. If the real 7.1 source is not available under Vista™

If the real 7.1 source is not available under Vista, you have to click the button of surrounding effect to activate audio output via SS-out, BS-out and C/B out. Otherwise, audio output will transmit through headphone and Front out only.

First of all, please click "**DSP Mode**" to change the screen of **DSP Effect** to **Shifter**.



Secondly, please click clockwise or counter clockwise surrounding effect to activate audio output via SS-out, BS-out and C/B out.



4. Limitations

1. **If the audio source is not 7.1 Channel, the output cannot achieve the optimized audio effect.**
2. **Windows® 2000:**

   Does not support Line-In, SPDIF-In, and SPDIF-out.

   Mac OS®:

   Does not support SPDIF Out

   Support recording but monitoring under Line In.
3. **Windows® XP and Windows Vista®:**

   If the driver of External USB 7.1 Channel Sound Box is properly installed; External USB 7.1 Channel Sound Box will switch to headphone mode after plugging in a headphone jack. There will no output for surround output, back surround output, and center/Subwoofer output but front out will keep functioning.
4. The button of Playback mute can work at Headphone-out, F-out, SS-out, BS-out, and C/B out but SPDIF out.

5. Specifications

Item	Description		
Interface	USB 1.1/ 2.0		1 x USB Type B Port
Connector	Audio-Out	Headphone	1x3.5mm Stereo audio Jack Female in Green
		Front Audio	1x3.5mm Stereo audio Jack Female in Green
		Surround	1x3.5mm Stereo audio Jack Female in Gray
		Back surround	1x3.5mm Stereo audio Jack Female in Black
		Center/Subwoofer	1x3.5mm Stereo audio Jack Female in Yellow
		S/PDIF-In	1x S/PDIF Audio Jack Female in Black
	Audio-In	Line-In Port	1x3.5mm Stereo audio Jack Female in Blue
		Mic-In Port	1x3.5mm Stereo audio Jack Female in Pink
		S/PDIF-In	1x S/PDIF Audio Jack Female in Black
LEDs	Green	Lights up when powered on; flash when operation.	
	Blue	Lights up for recording muted, lights off for recording function can be used.	
HID Buttons	Volume Up	Press the Volume up bottom for volume up	
	Volume Down	Press the Volume down bottom for volume down	
	Play Mute	Press the Play Mute bottom for playback mute	
	Record Mute	Press the Record Mute bottom for recording precess mute.	
Power mode	Self-Power only		
Sampling rate	Supports Fixed 48/44.1 KHz sampling rate in analog recording and playback		
Compliant	USB 1.1 and 2.0 full speed specification to 1.5/12 Mbps		
	USB audio device class specification 1.0		
	USB HID class specification V1.1		
	IEC 60958 spec. compliant (consumer format S/PDIF input and output with loop-back support)		
	SCMS (Serial Copy Management System)		

* Specifications are subject to change without notice.

6. Regulatory Compliance

FCC Conditions

This equipment has been tested and found to comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference

(2) This device must accept any interference received. Including interference that may cause undesired operation.

Important! Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment. Use an approved phone set.

CE

This equipment is in compliance with the requirements of the following regulations: EN 55 022: CLASS B

WEEE Information

For EU (European Union) member users:
According to the WEEE (Waste electrical and electronic equipment) Directive, do not dispose of this product as household waste or commercial waste. Waste electrical and electronic equipment should be appropriately collected and recycled as required by practices established for your country. For information on recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.